Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-11-04-03** **Date: 03-09-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Development of Burrial Ground at Kodigehalli Village in Ward No.08.
Agency	:	Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.
Customer's Reference	:	BBMP/EE/BTP/WO/70/2019-20.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-08-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	31-08-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.94	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer,
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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-11-04-03** **Date: 28-09-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Development of Burrial Ground at Kodigehalli Village in Ward No.08.
Agency	:	Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.
Customer's Reference	:	BBMP/EE/BTP/WO/70/2019-20.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-08-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	31-08-19
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig. Date.

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Technical Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-11-04-03**	**Date: 03-09-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Development of Burrial Ground at Kodigehalli Village in Ward No.08.	
Agency	:	Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.	
Customer's Reference	:	BBMP/EE/BTP/WO/70/2019-20.	
Source of Sample	:	Sample supplied by Agency	
Sample condition	:	Satisfactory	
Date of Receipt	:	30-08-19	
Sample Type	:	40mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties	
Date of test	:	30-08-19	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-11-04-03** **Date: 03-09-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.48	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.22	_

Note:
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Authorized Signatory
Technical Manager

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-11-04-03** **Date: 03-09-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Development of Burrial Ground at Kodigehalli Village in Ward No.08.
Agency	:	Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.
Customer Reference	:	BBMP/EE/BTP/WO/70/2019-20.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-08-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	30-08-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-11-04-03** **Date: 03-09-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R RUDRAPRASAD
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Technical Manager

End of Report

Assistant Executive Engineer,
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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-11-04-03** **Date: 03-09-19**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of Burrial Ground at Kodigehalli Village in Ward No.08.

Agency : Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/70/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-08-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 30-08-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-11-04-03** **Date: 03-09-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Technical Manager

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Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2019-11-04-03** **Date: 03-09-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Development of Burrial Ground at Kodigehalli Village in Ward No.08.
Agency	:	Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.
Customer's Reference	:	BBMP/EE/BTP/WO/70/2019-20.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-08-19
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	29-08-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	398	199	203	16078	31.133	1936.4	2022.2	Not less than 1800Kg/m^3
2	399	201	199	15960	33.913	2124.9		
3	402	199	203	16240	32.564	2005.2		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

CIVIL Pro Sig..... Date..... BANGALORE

Lab ID : **CP-2019-11-04-03** **Date: 03-09-19**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	203	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	404	201	202	
3	403	202	203	
4	404	201	199	
5	403	203	202	
6	403	200	203	
7	402	200	200	
8	402	202	201	
9	400	201	200	
10	403	201	201	
11	403	201	199	
12	403	202	200	
13	402	199	201	
14	403	200	201	
15	399	201	203	
16	401	202	199	
17	400	199	202	
18	401	201	202	
19	399	203	203	
20	401	203	201	
Average of 20	**402**	**201**	**201**	

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Lab ID : **CP-2019-11-04-03** **Date: 03-09-19**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	203	81070	431.6	5.3	5.3
2	404	201	80956	436.7	5.4	
3	403	202	81466	425.3	5.2	
4	404	201	81105	453.0	5.6	
5	403	203	81704	393.7	4.8	
6	403	200	80549	386.3	4.8	
7	402	200	80472	445.8	5.5	
8	402	202	81288	439.2	5.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
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Technical Manager

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Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2019-11-04-03** **Date: 03-09-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Development of Burrial Ground at Kodigehalli Village in Ward No.08.
Agency	:	Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.
Customer's Reference	:	BBMP/EE/BTP/WO/70/2019-20.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-08-19
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	29-08-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	150	200	12000	32.156	2679.7	2638.2	Not less than 1800Kg/m^3
2	402	151	202	12262	31.893	2601.0		
3	402	151	199	12080	31.816	2633.9		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.81	32.18	4.84	4.24	Shall not be more than 10% by mass
2	33.45	32.01	4.28		
3	33.37	32.17	3.59		

CIVIL Pro Sig..... Date..... BANGALORE

Lab ID : **CP-2019-11-04-03** **Date: 03-09-19**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	151	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	151	200	
3	401	152	201	
4	401	151	201	
5	402	149	199	
6	402	150	203	
7	403	151	200	
8	402	151	203	
9	402	150	202	
10	401	151	201	
11	403	151	203	
12	401	151	202	
13	404	150	203	
14	399	149	201	
15	400	151	199	
16	403	153	200	
17	401	150	203	
18	403	152	203	
19	401	152	200	
20	402	150	203	
Average of 20	**402**	**151**	**201**	

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Lab ID : **CP-2019-11-04-03** **Date: 03-09-19**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	151	60540	320.7	5.3	5.6
2	402	151	60916	361.2	5.9	
3	401	152	60802	335.3	5.5	
4	401	151	60624	364.5	6.0	
5	402	149	59944	354.4	5.9	
6	402	150	60315	322.5	5.3	
7	403	151	60890	313.2	5.1	
8	402	151	60622	341.2	5.6	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Assistant Executive Engineer,
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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : **CP-2019-11-04-03** **Date: 03-09-19**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of Burrial Ground at Kodigehalli Village in Ward No.08.

Agency : Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/70/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-08-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 31-08-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory

Note:

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CIVIL Pro Sig..... Date..... BANGALORE

R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

End of Report

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2019-11-04-03** **Date: 25-10-19**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of Burrial Ground at Kodigehalli Village in Ward No.08.

Agency : Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/70/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-10-19

Sample Type /Size : Precast Cover Slab(100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 21/10/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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CIVIL PRO Sig..... Date.....

Assistant Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-04-03** **Date: 10/09/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of Burrial Ground at Kodigehalli Village in Ward No.08.

Agency : Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/70/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-09-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	03/09/2019	10/09/2019	149.52 X 151.74 X 149.95	22687	**8.262**	293.0	12.9	12.7
2	PCC	M15	03/09/2019	10/09/2019	151.49 X 150.87 X 151.31	22856	**8.892**	286.3	12.5	
3	PCC	M15	03/09/2019	10/09/2019	150.86 X 151.62 X 149.80	22873	**8.384**	290.3	12.7	

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Assistant Executive Engineer,
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Bangalore.

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-04-03** **Date: 01/10/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of Burrial Ground at Kodigehalli Village in Ward No.08.

Agency : Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/70/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-09-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	03/09/2019	01/10/2019	149.68 X 150.02 X 150.59	22455	**8.909**	397.1	17.7	17.8
2	PCC	M15	03/09/2019	01/10/2019	151.50 X 149.62 X 150.74	22666	**8.666**	406.8	17.9	
3	PCC	M15	03/09/2019	01/10/2019	150.43 X 149.67 X 151.47	22515	**8.224**	397.2	17.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-04-03** **Date: 11/09/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of Burrial Ground at Kodigehalli Village in Ward No.08.

Agency : Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/70/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-09-19

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	04/09/2019	11/09/2019	149.85 X 149.41 X 151.77	22389	**8.216**	415.4	18.6	18.3
2	Footing Concrete	M20	04/09/2019	11/09/2019	151.38 X 150.35 X 149.22	22761	**8.717**	412.4	18.1	
3	Footing Concrete	M20	04/09/2019	11/09/2019	150.99 X 149.63 X 151.60	22592	**8.327**	409.7	18.1	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/10/2019

Lab ID	:	**CP-2019-11-04-03**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Development of Burrial Ground at Kodigehalli Village in Ward No.08.
Agency	:	Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.
Customer's Reference	:	BBMP/EE/BTP/WO/70/2019-20.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-09-19
Customer ID	:	Footing Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	04/09/2019	03/10/2019	149.22 X 150.23 X 149.90	22417	**8.435**	535.4	23.9	23.4
2	Footing Concrete	M20	04/09/2019	03/10/2019	149.35 X 150.75 X 149.55	22514	**8.992**	506.9	22.5	
3	Footing Concrete	M20	04/09/2019	03/10/2019	151.36 X 149.07 X 151.03	22563	**8.750**	535.6	23.7	

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Lab ID : **CP-2019-11-04-03** **Date: 11/09/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of Burrial Ground at Kodigehalli Village in Ward No.08.

Agency : Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/70/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-09-19

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	04/09/2019	11/09/2019	150.66 X 150.70 X 149.36	22706	**8.216**	424.1	18.7	18.5
2	Footing Concrete	M20	04/09/2019	11/09/2019	150.78 X 151.03 X 150.64	22773	**8.717**	415.3	18.2	
3	Footing Concrete	M20	04/09/2019	11/09/2019	150.33 X 150.27 X 151.10	22590	**8.327**	420.1	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-04-03** **Date: 03/10/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of Burrial Ground at Kodigehalli Village in Ward No.08.

Agency : Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/70/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-09-19

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	04/09/2019	03/10/2019	151.57 X 149.69 X 149.80	22689	**8.435**	536.8	23.7	23.3
2	Footing Concrete	M20	04/09/2019	03/10/2019	150.56 X 151.59 X 149.68	22823	**8.992**	519.7	22.8	
3	Footing Concrete	M20	04/09/2019	03/10/2019	151.66 X 150.51 X 151.87	22826	**8.750**	532.6	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-04-03** **Date: 11/09/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of Burrial Ground at Kodigehalli Village in Ward No.08.

Agency : Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/70/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-09-19

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	04/09/2019	11/09/2019	151.85 X 150.00 X 150.67	22777	**8.216**	422.0	18.5	18.6
2	Footing Concrete	M20	04/09/2019	11/09/2019	149.12 X 150.70 X 151.71	22473	**8.717**	416.8	18.5	
3	Footing Concrete	M20	04/09/2019	11/09/2019	150.16 X 149.36 X 150.25	22428	**8.327**	422.2	18.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-04-03** **Date: 03/10/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of Burrial Ground at Kodigehalli Village in Ward No.08.

Agency : Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/70/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-09-19

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	04/09/2019	03/10/2019	149.73 X 149.40 X 151.89	22369	**8.435**	521.3	23.3	22.9
2	Footing Concrete	M20	04/09/2019	03/10/2019	149.41 X 149.70 X 151.36	22366	**8.992**	498.4	22.3	
3	Footing Concrete	M20	04/09/2019	03/10/2019	151.35 X 149.82 X 150.05	22675	**8.750**	526.8	23.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-04-03** **Date: 14/09/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of Burrial Ground at Kodigehalli Village in Ward No.08.

Agency : Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/70/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-09-19

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	07/09/2019	14/09/2019	150.99 X 150.05 X 151.53	22656	**8.216**	408.3	18.0	18.2
2	Column Concrete	M20	07/09/2019	14/09/2019	149.57 X 150.90 X 151.29	22570	**8.717**	406.9	18.0	
3	Column Concrete	M20	07/09/2019	14/09/2019	150.95 X 151.43 X 149.15	22858	**8.327**	422.3	18.5	

Note:

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Authorized Signatory
Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-04-03** **Date: 05/10/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of Burrial Ground at Kodigehalli Village in Ward No.08.

Agency : Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/70/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-09-19

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	07/09/2019	05/10/2019	151.88 X 150.01 X 149.44	22783	**8.435**	541.8	23.8	23.0
2	Column Concrete	M20	07/09/2019	05/10/2019	149.21 X 149.45 X 151.39	22300	**8.992**	490.7	22.0	
3	Column Concrete	M20	07/09/2019	05/10/2019	150.47 X 149.36 X 149.40	22474	**8.750**	520.6	23.2	

Note:

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Kodigehalli Sub Division,
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Bangalore.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-04-03** **Date: 14/09/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of Burrial Ground at Kodigehalli Village in Ward No.08.

Agency : Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/70/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-09-19

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	07/09/2019	14/09/2019	150.41 X 149.99 X 151.10	22560	**8.216**	426.1	18.9	18.5
2	Column Concrete	M20	07/09/2019	14/09/2019	150.91 X 149.79 X 149.73	22605	**8.717**	410.0	18.1	
3	Column Concrete	M20	07/09/2019	14/09/2019	149.65 X 149.73 X 150.95	22406	**8.327**	414.4	18.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-04-03** **Date: 05/10/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of Burrial Ground at Kodigehalli Village in Ward No.08.

Agency : Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/70/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-09-19

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	07/09/2019	05/10/2019	149.13 X 150.60 X 151.91	22458	**8.435**	517.4	23.0	23.1
2	Column Concrete	M20	07/09/2019	05/10/2019	150.13 X 149.50 X 149.50	22444	**8.992**	514.6	22.9	
3	Column Concrete	M20	07/09/2019	05/10/2019	150.36 X 150.24 X 149.45	22591	**8.750**	530.1	23.5	

Note:
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Assistant Executive Engr
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-04-03** **Date: 14/09/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of Burrial Ground at Kodigehalli Village in Ward No.08.

Agency : Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/70/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-09-19

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	07/09/2019	14/09/2019	150.09 X 150.05 X 151.52	22522	**8.216**	422.3	18.8	18.8
2	Column Concrete	M20	07/09/2019	14/09/2019	151.18 X 149.51 X 150.15	22604	**8.717**	425.9	18.8	
3	Column Concrete	M20	07/09/2019	14/09/2019	149.06 X 151.37 X 149.35	22563	**8.327**	424.5	18.8	

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Assistant Executive Engineer,
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/10/2019

Lab ID	:	**CP-2019-11-04-03**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Development of Burrial Ground at Kodigehalli Village in Ward No.08.
Agency	:	Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.
Customer's Reference	:	BBMP/EE/BTP/WO/70/2019-20.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-09-19
Customer ID	:	Column Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	07/09/2019	05/10/2019	151.60 X 150.82 X 151.86	22864	**8.435**	544.8	23.8	23.5
2	Column Concrete	M20	07/09/2019	05/10/2019	150.86 X 151.63 X 149.27	22874	**8.992**	517.4	22.6	
3	Column Concrete	M20	07/09/2019	05/10/2019	151.31 X 149.96 X 150.22	22691	**8.750**	542.7	23.9	

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Technical Manager

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Assistant Executive Engineer,
Kodigehalli Sub Division,
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-04-03** **Date: 19/09/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of Burrial Ground at Kodigehalli Village in Ward No.08.

Agency : Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/70/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-19

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M20	12/09/2019	19/09/2019	150.03 X 150.72 X 151.67	22612	**8.216**	407.6	18.0	18.5
2	Plinth Beam Concrete	M20	12/09/2019	19/09/2019	150.04 X 149.18 X 150.25	22384	**8.717**	422.8	18.9	
3	Plinth Beam Concrete	M20	12/09/2019	19/09/2019	149.01 X 151.54 X 151.63	22582	**8.327**	417.8	18.5	

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-04-03** **Date: 10/10/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of Burrial Ground at Kodigehalli Village in Ward No.08.

Agency : Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/70/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-19

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M20	12/09/2019	10/10/2019	149.72 X 151.83 X 151.89	22732	**8.435**	526.3	23.2	23.1
2	Plinth Beam Concrete	M20	12/09/2019	10/10/2019	150.24 X 149.50 X 151.06	22461	**8.992**	513.0	22.8	
3	Plinth Beam Concrete	M20	12/09/2019	10/10/2019	149.14 X 151.22 X 150.16	22553	**8.750**	528.7	23.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-04-03** **Date: 19/09/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of Burrial Ground at Kodigehalli Village in Ward No.08.

Agency : Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/70/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-19

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M20	12/09/2019	19/09/2019	149.06 X 151.37 X 151.93	22563	**8.216**	413.0	18.3	18.2
2	Plinth Beam Concrete	M20	12/09/2019	19/09/2019	151.00 X 149.99 X 149.25	22648	**8.717**	412.6	18.2	
3	Plinth Beam Concrete	M20	12/09/2019	19/09/2019	151.44 X 150.99 X 149.76	22866	**8.327**	412.5	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-04-03** **Date: 10/10/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of Burrial Ground at Kodigehalli Village in Ward No.08.

Agency : Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/70/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-19

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M20	12/09/2019	10/10/2019	150.54 X 150.27 X 149.07	22622	**8.435**	531.0	23.5	23.2
2	Plinth Beam Concrete	M20	12/09/2019	10/10/2019	151.00 X 150.54 X 151.68	22732	**8.992**	503.0	22.1	
3	Plinth Beam Concrete	M20	12/09/2019	10/10/2019	149.08 X 149.58 X 150.36	22300	**8.750**	534.7	24.0	

Note:

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R RUDRAPRASAD
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-04-03** **Date: 02/11/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of Burrial Ground at Kodigehalli Village in Ward No.08.

Agency : Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/70/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-10-19

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete	M15	25/10/2019	02/11/2019	150.20 X 150.64 X 151.17	22626	**8.262**	277.2	12.3	12.4
2	Coping Concrete	M15	25/10/2019	02/11/2019	151.08 X 151.96 X 150.74	22958	**8.892**	297.5	13.0	
3	Coping Concrete	M15	25/10/2019	02/11/2019	149.15 X 151.26 X 150.65	22560	**8.384**	273.0	12.1	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO BANGALORE Sig. Date

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-11-04-03** **Date: 02/11/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development of Burrial Ground at Kodigehalli Village in Ward No.08.

Agency : Sri.A.Hemadrireddy, No.07, Hebbala, Kempapura, 4th Cross, Gopalappa Layout, Bangalore-560 024.

Customer's Reference : BBMP/EE/BTP/WO/70/2019-20.

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-10-19

Customer ID : Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Coping Concrete	M15	25/10/2019	02/11/2019	150.59 X 151.29 X 149.20	22782	**8.262**	292.8	12.9	12.7
2	Coping Concrete	M15	25/10/2019	02/11/2019	151.76 X 149.87 X 151.85	22743	**8.892**	280.8	12.3	
3	Coping Concrete	M15	25/10/2019	02/11/2019	151.33 X 150.21 X 149.54	22731	**8.384**	292.5	12.9	

Note:

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig. Date. BANGALORE

FOR CIVIL Pro.

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****End of Report****